What's in the Box?

PART NO.	QTY	DESCRIPTION
DVN-4PS	1	DVNET-4P, 4X1 DVI-D, USB2.0, Audio switch
Power Supply	1	PS5VDC2A
User Manual	1	

Technical Specifications

VIDEO	
Format	DVI-D Single Line
Maximum Pixel Clock	165 MHz
Input Interface	(4) DVI-D 29-pin female
Output Interface	(1) DVI-D 29-pin female
Resolution	Up to 1920 x 1200 @60Hz
DDC	5 volts p-p(TTL)
Input Equalization	Automatic
Input Cable Length	Up to 20 ft.
Output Cable Length	Up to 20 ft.
AUDIO	
Frequency Response	20 Hz to 20 KHz
Impedance	600 ohm
Nominal Level	0-1.0 V
Common Mode	Rejection at 60dB
Input Interface	(4) 3.5 mm Stereo Audio
Output Interface	(1) 3.5 mm Stereo Audio
USB	
Signaling	USB 2.0, 1.1 and 1.0 w/ Internal Hub
Input Interface	(4) USB Type B
Output Interface	(2) USB Type A
CONTROL	
Front Panel	Tact Switch
RS232	Via Software @ 9600 bps
IR	Via Remote Control with IR-EYE Type 3
OTHER	
Power	External 100-240 VAC/5VDC2A @10W
Dimensions	10.5"W x 1.875"H x 6"D
Weight	6 lbs.
Approvals	UL, CE, ROHS Compliant
Operating Temp.	32-131°F (0-55 °C)
Storage Temp.	-4-185 °F (-20-85 °C)
Humidity	Up to 95%
Emulation	NO KEYBOARD OR MOUSE EMULATION

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For more information, visit www.smartavi.com.

DVN-4P Front

DVN-4P Rear

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Smart-AVI
SMART AUDIO VIDEO INNOVATION

Installation Manual

DVN-4P

4-Port Cross-platform DVI-D KVM with USB 2.0, Stereo Audio, RS-232 and IR Control

Control 4 Computers, PC or Mac on one Display Up To 20 Feet Away with USB 2.0 Keyboard and Mouse, Stereo Audio and IR Control

www.smartavi.com

Introduction

The DVN-4P is a cross-platform DVI-D switch capable of sharing one DVI-D Monitor between four computers, PC or Mac. View four computers equipped with DVI-D on a single screen, saving money and desktop space.

Features

- Supports Mac, PC, Linux and Sun DVI-D
- Supports High Resolution1920x1200 60 Hz WUXGA
- Uses universal DVI Single Link connectors
- Zero pixel loss with TMDS signal correction
- Output DVI up to 20 feet
- Front panel switch with LED indicator
- Saves space on your desktop

Applications

- Home Theater Integration
- Digital Signage Deployment
- Information Kiosks/Displays
- Film/Recording Studios

In the medical or industrial field, where it may not be practical (or safe) to have one or more CPUs in the general vicinity, SmartAVI's DVI Switch Series is the perfect solution, allowing for either PC or Mac signals to be extended from computer to monitor (20 feet from computer to DVI Switch, and then 20 feet from DVI Switch to remote monitor/display point).

Another practical use for one of our DVI Switch would be for media recording studios, where soundproofing and space issues come into play. Using a DVI Switch eliminates the inherent "hum" of a powered CPU and gives you the freedom of using your keyboard, mouse and monitor without having to find room for the computer itself in the same workspace.

Product - Installation Diagram

Installation

1. Turn off all computers and the display.
2. Connect the DVI extension cables, USB cables, and audio cables (not included) to the computers and to the "IN" ports on the DVN-4P.
3. Connect the display to the "OUT" DVI connector on the DVN-4P.
4. Connect USB devices, including mouse and keyboard, to the "OUT" USB connector on the DVN-4P.
5. Connect speakers to the "OUT" audio connector on the DVN-4P.
6. Connect the power cord and power on the DVN-4P.
7. Power on the computers and the display.
8. Use the front panel buttons, an RS-232 connection or infrared remote control to select the desired input port.

Switching Between Ports

There are three ways to switch between inputs on the DVN-4P: via the front panel buttons, RS-232 connection or IR remote control.

Front Panel Control

To switch ports using the front panel, press either the up or down button to cycle through the available ports. The selected port number will be indicated on the LED display.

RS-232 Control

To switch ports using an RS-232 connection, use a male-to-female serial cable to connect a computer to the DVN-4P's RS-232 port. Use Hyperterminal to connect to the DVN-4P, making sure to use the standard communication mode of 9600bps, 8, N, 1.
To switch ports, use the standard "//M" command prompt.
To select the "IN 1" port, send "//M01 [ENTER]"
To select the "IN 2" port, send "//M02 [ENTER]" etc.

IR Control

To switch ports using an infrared remote control (optional accessory), connect an IR-EYE (optional accessory) to the DVN-4P box and the unit will auto-detect the infrared connection. Once the connection is made, you may use the IR remote to cycle through the available ports.

DDC Learning

The DVN-4P is fully capable of "learning" and remembering what type of display monitor is connected to the unit. Programming the DDC (Display Data Channel) is accomplished using the two buttons located on the front panel.

To enter Learning Mode, simply depress both buttons at once until the display reads **"L"**. By then pressing the Down/Left button, you may cycle through the following DDC learning modes:

"P" indicates Personal Computer Mode and automatically selects the standard display characteristics of a PC display, which typically works for any PC/Display combination.

"A" indicates Apple Mode and selects the best display mode to accommodate a Mac.

"S" indicates Screen Mode, which replicates the type of device connected to the "IN 1" port.

NOTE: THE USB OPERATION OF THE DVN-4P IS FULLY TRANSPARENT. TO ATTACH ADDITIONAL USB DEVICES A USB HUB MAY BE USED.